

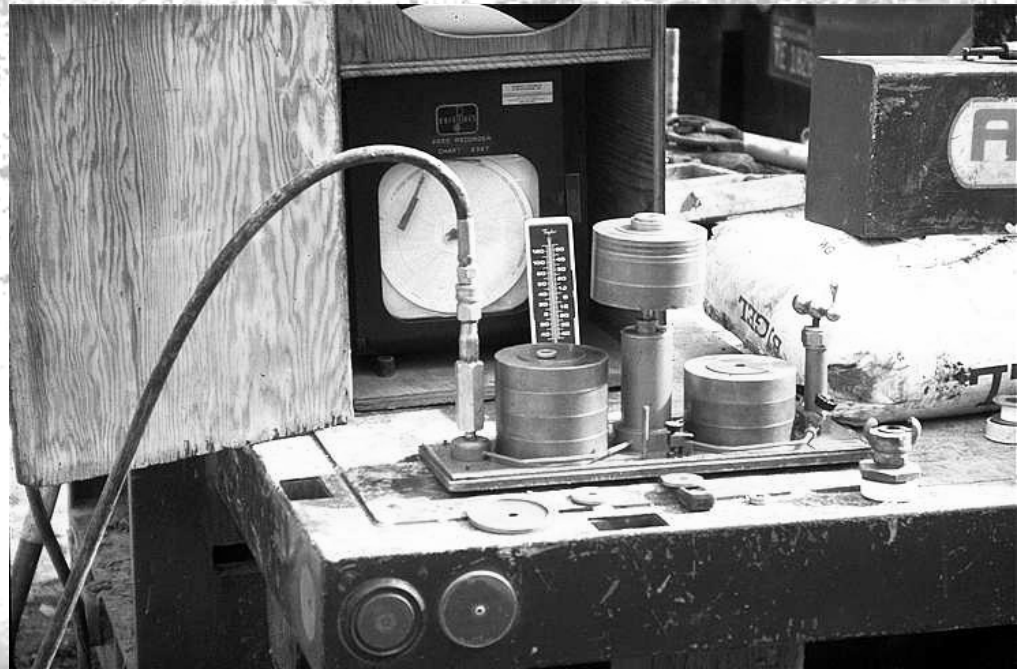
195.304 Test Pressure.



195.300 Scope

This subpart prescribes minimum requirements for the pressure testing of steel pipelines.

However, this subpart does not apply to the movement of pipe under 195.424.



195.302 General requirements

(a) No operator may operate a pipeline unless it has been pressure tested under this subpart without leakage

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195.302 General requirements

No operator may return to service a segment of pipeline that has been:

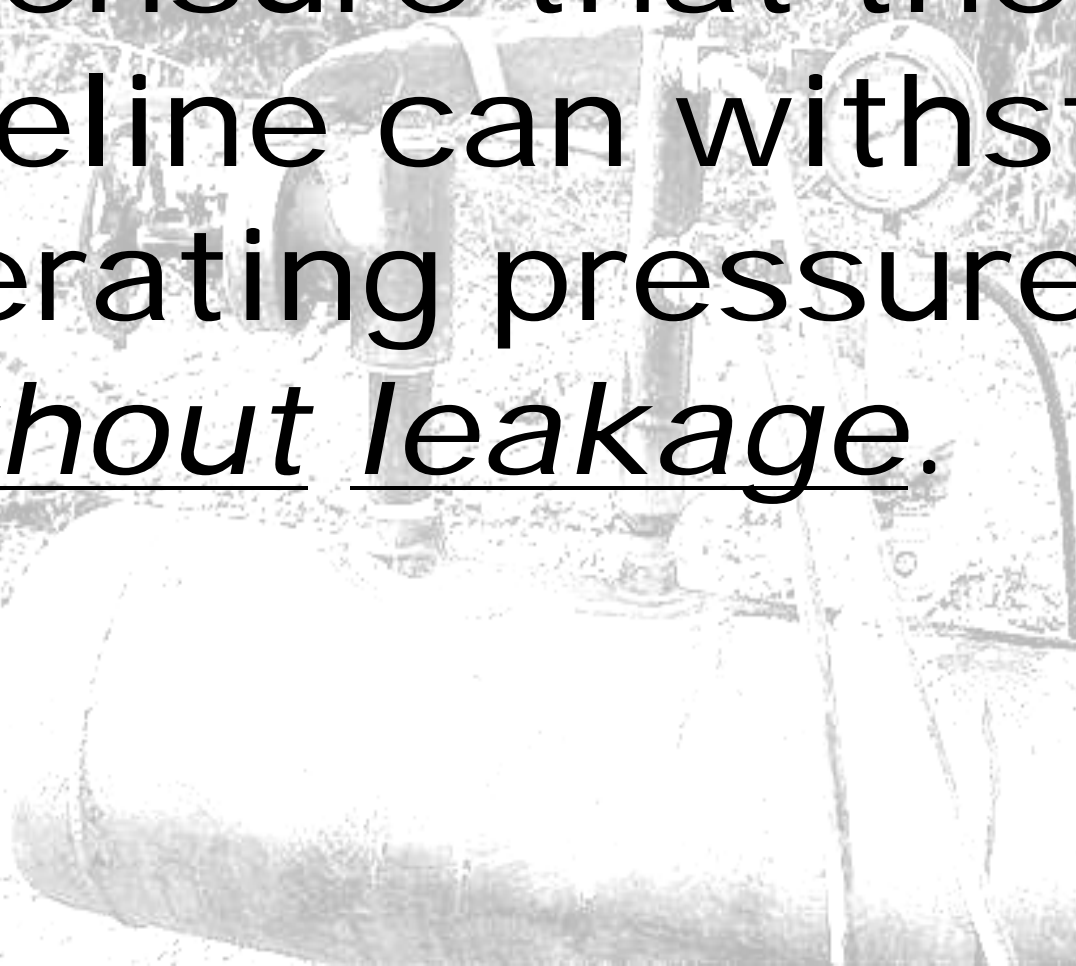
- ↗ Replaced*
- ↗ Relocated or*
- ↗ Otherwise changed*

195.302 General requirements

(b) Except for pipelines converted under 195.5, the following pipelines may be operated without pressure testing under this subpart

Why Hydrostatic Test.

To ensure that the pipeline can withstand operating pressures without leakage.



Hydrostatic Testing.

Is required for:

- New construction
- Replacement
- Relocated or
- Otherwise changed

WHAT TO LOOK FOR

- Company Policy
- Procedures
- Identified Test Medium
- Required Equipment
- Test Plans

WHAT TO LOOK FOR

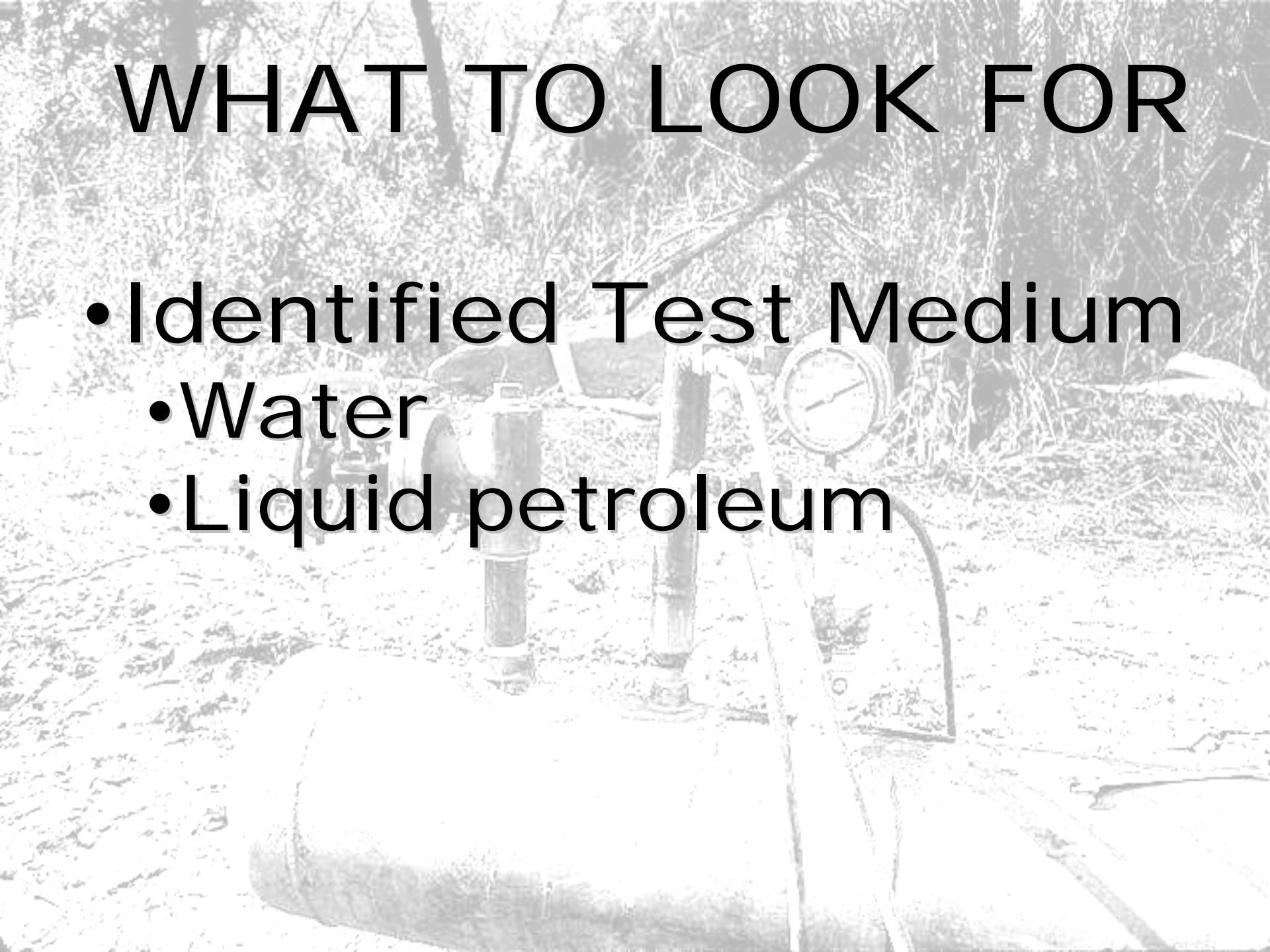
- Company Policy
 - Conduct a safe hydrostatic test
 - Water only
 - Written records
 - All tie-ins
 - 45 day notice

WHAT TO LOOK FOR

- Test Procedures
 - Cleaning the line
 - Filing the line
 - Pressurizing the line
 - The test period
 - The test records
 - Displacing the medium

WHAT TO LOOK FOR

- Identified Test Medium
 - Water
 - Liquid petroleum



WHAT TO LOOK FOR

- Required Equipment
 - Pumps
 - Manifolds
 - Valves
 - Measuring instrument
 - Miscellaneous equipment

WHAT TO LOOK FOR

- Test Plans
 - Pressure/temperature
 - Safety/environmental
 - Test procedure



WHAT TO LOOK FOR

- Company Policy
- Procedures
- Identified Test Medium
- Required Equipment
- Test Plans



**WHAT CAN GO
WRONG?**

195.304 Test Pressure

- ***The test pressure must be maintained throughout the part of the system being tested for --***
 - ***4 continuous hours at 125% MOP, and***
 - ***for lines not visually inspected, an additional 4 hours to at least 110% MOP***

195.305 Testing of components.

- ***(a) Test must include all pipe, and attached fittings, including components, unless otherwise permitted by (b)***
- ***(b) A component, other than pipe, that is ONLY item being replaced or added, need not be tested if manufacturer certifies ...***

195.305 Testing of components.

- ***(1) component was hydrostatically tested at factory or***
- ***(2) component was manufactured under quality control system that ensures it is at least equal in strength to a prototype that was hydrostatically tested***

195.306 Test medium.

- ***(a) Except as provided in (b), (c), and (d), water must be used as test medium***
- ***(b) Except for offshore pipelines, liquid petroleum that does not vaporize rapidly may be used if ...***

- continued -

195.306 Test medium.

- ***(1) entire test section is outside cities and other populated areas***
- ***(2) building/s within 300 feet of test section are unoccupied when test pressure is equal to or greater than 50% of SMYS
($P=2st/OD \times .50$)***

- continued -

195.306 Test medium.

- ***(3) test section is kept under surveillance by regular patrol and***



- ***(4) continuous communication is maintained along entire test section***



195.306 Test medium.

- ***(c) Carbon dioxide pipelines may use inert gas or carbon dioxide as the test medium if ...***

(1) entire test section is outside cities and populated areas

195.306 Test medium.

(2) building/s within 300 ' are unoccupied while test pressure is equal to or greater than 50% of SMYS

(3) The maximum hoop stress does not exceed 80% of SMYS

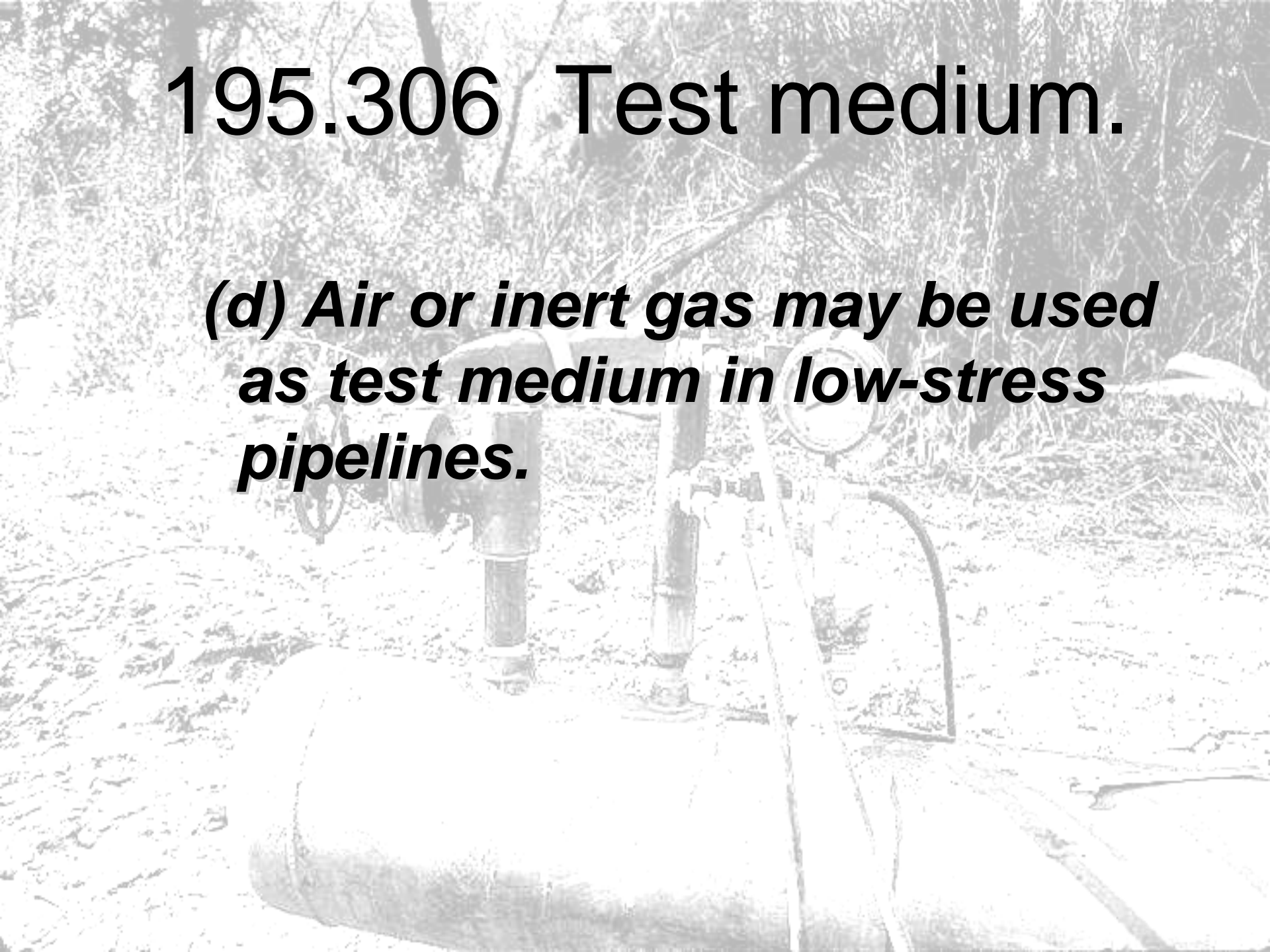
195.306 Test medium.

(4) continuous communication is maintained along entire test section;

(5) the pipe is new pipe with a longitudinal joint factor of 1.00.

195.306 Test medium.

(d) Air or inert gas may be used as test medium in low-stress pipelines.



195.308 Testing of tie-ins.

Pipe associated with tie-ins must be pressure tested, either with the section to be tied in or separately

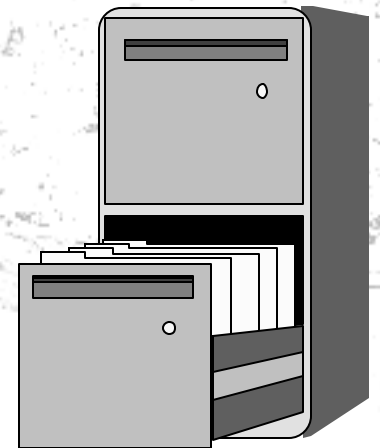


195.310 Records.

(a) A record must be made of each test, and the record of the latest test must be retained as long as the facility is in use

(b) The record must include ...

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195.310 Records.

- (1) pressure recording charts***
- (2) test instrument calibration data***

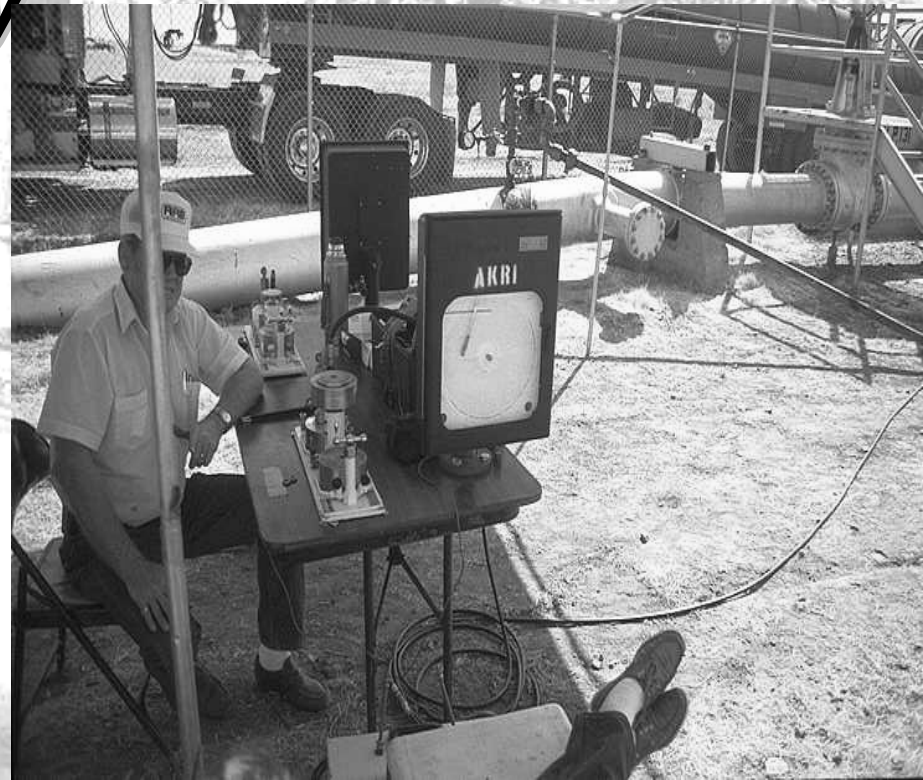


195.310 Records.

(3) name of operator, person responsible, and if used, name of test company

(4) date & time of test

(5) minimum test pressure



195.310 Records.

(6) test medium used

***(7) description
of facility
tested & test
apparatus***



195.310 Records.

(8) explanation of any pressure discontinuties, including failures that appear on chart; and

(9) if over 100 ' elevation difference, a profile of the line showing the elevation, and test site



195.310 Records.

***(10) Temperature of the test medium
or pipe during the test
period***

